



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT).

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>G06F 17/30</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 99/36870</b> <b>(43) International Publication Date:</b> 22 July 1999 (22.07.99)
<b>(21) International Application Number:</b> PCT/US99/00973 <b>(22) International Filing Date:</b> 15 January 1999 (15.01.99)  <b>(30) Priority Data:</b> 09/008,354 16 January 1998 (16.01.98) US  <b>(71) Applicant:</b> VISTO CORPORATION [US/US]; 1937 Landings Drive, Mountain View, CA 94043 (US). <b>(72) Inventor:</b> MENDEZ, Daniel, J.; 275 Gloria Circle, Menlo Park, CA 94025 (US). <b>(74) Agents:</b> SOCKOL, Marc, A. et al.; Graham & James LLP, 600 Hansen Way, Palo Alto, CA 94304-1043 (US).		<b>(81) Designated States:</b> CN, JP, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i>

**(54) Title:** SYSTEM AND METHOD FOR USING A WORKSPACE DATA MANAGER TO ACCESS, MANIPULATE AND SYNCHRONIZE NETWORK DATA

**(57) Abstract**

A system includes a communication module for downloading workspace data (135) from a remote site, an application program interface coupled to the communications module for communicating with a workspace data manager (160) to enable manipulation of the downloaded workspace data and thereby create manipulated data, and a general synchronization module (130) coupled to the communications module for synchronizing the manipulated data with the workspace data (135) stored at the remote site. An instantiator requests the workspace data manager to provide an interface for enabling manipulation of the downloaded workspace data. The workspace data manager may create another instance of the interface or may provide access to its only interface to enable manipulation of the data. A data reader may translate the downloaded workspace data from the format used by the remote site to the format used by the workspace data manager. Upon logout, a de-instantiator synchronizes the data with the global server and deletes workspace data. The system handles the situation where the data stored at the remote site has not changed therefore includes the downloaded data, and the situation the data stored at the remote site has been modified and therefore is different than the downloaded data.